

Human Wave K-12



Key Points:

- -An earthquake causes different types of energy to radiate from the epicenter
- -The P and S waves are the first two to arrive at any specific point
- -P waves and 5 waves have different motions and shake the earth differently as they travel through it
- -S waves do not travel through liquid

Notes:

SOLID

P wave:

- -Compressional motion is parallel to direction of propagation
- -shoulder to shoulder with arms around shoulders because solid molecules are tightly bound
- -took time for motion to propagate
- -each person was subjected to a brief deformation, but no one moved from their original position
- -motion of each person was in the direction of wave propagation

S wave:

-Shear motion is perpendicular to direction of propagation

LIQUID

- -Arms not around each other because liquid molecules are not tightly bound
- -P wave propagates, but S wave does not because loose bonding of molecules does not support shearing motion